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	Main Menu Search Form Posting Counts Show S Numbers Edit S Numbers	Preferences Cases
	Search Results -	
	Terms Docu L2 with (muta\$ or substitut\$ or replace\$)	iments 17
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	US Pre-Grant Publication Full-Text Database JPO Abstracts Database EPO Abstracts Database	
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DATE: Tuesday, April 15, 2003 Printable Copy Create Case

Set Name	Query	Hit Count	
side by side			result set
DB = USP	T,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ		
<u>L3</u>	L2 with (muta\$ or substitut\$ or replace\$)	17	<u>L3</u>
<u>L2</u>	L1	223	<u>L2</u>
DB=USPT; PLUR=YES; OP=ADJ			
<u>L1</u>	pyruvate carboxylase	223	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 17 returned.

1. Document ID: US 6503748 B2

L3: Entry 1 of 17

File: USPT

Jan 7, 2003

US-PAT-NO: 6503748

DOCUMENT-IDENTIFIER: US 6503748 B2

TITLE: Endogenous ketogulonigenium plasmid

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

☐ 2. Document ID: US 6485966 B2

L3: Entry 2 of 17

File: USPT

Nov 26, 2002

US-PAT-NO: 6485966

DOCUMENT-IDENTIFIER: US 6485966 B2

TITLE: Compositions and methods for helper-free production of recombinant

adeno-associated viruses

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw Desc Image

☐ 3. Document ID: US 6472212 B1

L3: Entry 3 of 17

File: USPT

Oct 29, 2002

US-PAT-NO: 6472212

DOCUMENT-IDENTIFIER: US 6472212 B1

TITLE: Methods and compositions for genetically modifying primate bone marrow cells

Full Title Citation Front Review Classification Date Reference Sequences Attachments KVMC Draw Desc Image

☐ 4. Document ID: US 6455284 B1

L3: Entry 4 of 17

File: USPT

Sep 24, 2002

US-PAT-NO: 6455284

DOCUMENT-IDENTIFIER: US 6455284 B1

TITLE: Metabolically engineered E. coli for enhanced production of

oxaloacetate-derived biochemicals

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

5. Document ID: US 6403351 B1

L3: Entry 5 of 17

File: USPT

Jun 11, 2002

US-PAT-NO: 6403351

DOCUMENT-IDENTIFIER: US 6403351 B1

TITLE: Pyruvate carboxylase polypeptide from Corynebacterium glutamicum

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMIC Draw Desc Image

6. Document ID: US 6338962 B1

L3: Entry 6 of 17

File: USPT

Jan 15, 2002

US-PAT-NO: 6338962

DOCUMENT-IDENTIFIER: US 6338962 B1

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian

cell

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

7. Document ID: US 6338953 B1

L3: Entry 7 of 17

File: USPT

Jan 15, 2002

US-PAT-NO: 6338953

DOCUMENT-IDENTIFIER: US 6338953 B1

TITLE: Expression of an exogenous gene in a mammalian cell by use of a non-mammalian

DNA virus having an altered coat protein

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWAC | Draw Desc | Image

☐ 8. Document ID: US 6281009 B1

L3: Entry 8 of 17

File: USPT

Aug 28, 2001

US-PAT-NO: 6281009

DOCUMENT-IDENTIFIER: US 6281009 B1

TITLE: Use of a non-mammalian DNA virus to express an exogenous gene in a mammalian

cell

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

9. Document ID: US 6258595 B1

L3: Entry 9 of 17

File: USPT

Jul 10, 2001

US-PAT-NO: 6258595

DOCUMENT-IDENTIFIER: US 6258595 B1

** See image for Certificate of Correction **

 ${\tt TITLE:}$ Compositions and methods for helper-free production of recombinant adeno-associated viruses

Full Title Citation Front Review Class	rification Date Reference Sequences Attachments	KWMC Drawn Desc Image
10. Document ID: US		
L3: Entry 10 of 17	File: USPT	May 29, 2001
US-PAT-NO: 6238914 DOCUMENT-IDENTIFIER: US 6238	914 B1	
TITLE: Use of a non-mammalia cell	n DNA virus to express an exoger	nous gene in a mammalian
Full Title Citation Front Review Class	ification Date Reference Sequences Attachments	KWMC Draw Desc Image
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Search Results - Record(s) 11 through 17 of 17 returned.

☐ 11. Document ID: US 6190887 B1

L3: Entry 11 of 17

File: USPT

Feb 20, 2001

US-PAT-NO: 6190887

DOCUMENT-IDENTIFIER: US 6190887 B1

TITLE: Expression of an exogenous gene in a mammalian cell by use of a non-mammalian

DNA virus having an altered coat protein

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

12. Document ID: US 6183993 B1

L3: Entry 12 of 17

File: USPT

Feb 6, 2001

US-PAT-NO: 6183993

DOCUMENT-IDENTIFIER: US 6183993 B1

TITLE: Complement-resistant non-mammalian DNA viruses and uses thereof

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMC Draw Desc Image

☐ 13. Document ID: US 6171833 B1

L3: Entry 13 of 17

File: USPT

Jan 9, 2001

US-PAT-NO: 6171833

DOCUMENT-IDENTIFIER: US 6171833 B1

TITLE: Pyruvate carboxylase from corynebacterium glutamicum

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWIC Draw Desc Image

☐ 14. Document ID: US 6165500 A

L3: Entry 14 of 17

File: USPT

Dec 26, 2000

US-PAT-NO: 6165500

DOCUMENT-IDENTIFIER: US 6165500 A

TITLE: Preparation for the application of agents in mini-droplets

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KMIC Draw Desc Image

	15. Document ID: US 5	08/1986 A	
L3:	Entry 15 of 17	File: USPT	Feb 16, 1999
	NO: 5871986 I-IDENTIFIER: US 58719	986 A	
TITLE: U	Use of a baculovirus t	to express and exogenous gene i	in a mammalian cell
Full	Title Citation Front Review Classif	ication Date Reference Sequences Attachments	KMMC Draw Desc Image
	16. Document ID: US 5	5731182 A	·
L3:	Entry 16 of 17	File: USPT	Mar 24, 1998
	NO: 5731182 I-IDENTIFIER: US 57311	.82 A	
TITLE: N	Non-mammalian DNA viru	s to express an exogenous gene	e in a mammalian cell
Full	Title Citation Front Review Classif	ication Date Reference Sequences Attachments	KVMC Drawi Deso Image
			•
	17. Document ID: US 5	5573945 A	
L3:	Entry 17 of 17	File: USPT	Nov 12, 1996
DOCUMENT	NO: 5573945 I-IDENTIFIER: US 55739 image for Certificate		
TITLE: N	Mutant and method for	producing L-glutamic acid by f	fermentation
Full	Title Citation Front Review Classifi	ication Date Reference Sequences Attachments	KWWC Draw Desc Image
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"HELP COMMANDS" at an arrow prompt (=>).

=> fil .eliz

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SINCE FILE

FULL ESTIMATED COST

ENTRY SESSION 0.21 0.21

TOTAL

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=> s pyruvate carboxylase

8868 PYRUVATE CARBOXYLASE

=> s l1 (10a) (muta? or substitut? or replace?)

6 FILES SEARCHED...

269 L1 (10A) (MUTA? OR SUBSTITUT? OR REPLACE?)

=> s l1 (10a) (muta? or substitut? or variant or replace?)

6 FILES SEARCHED...

3 296 L1 (10A) (MUTA? OR SUBSTITUT? OR VARIANT OR REPLACE?)

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=> dup rem 15
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1.6
                        MEDLINE
ΑN
     2003060496
                    MEDLINE
DN
     22458341 PubMed ID: 12437512
     Expression and characterization of a human pyruvate
ΤI
     carboxylase variant by retroviral gene transfer.
AU
     Carbone Mary Anna; Robinson Brian H
     Research Institute, The Hospital for Sick Children, 555 University Avenue,
CS
     Toronto, ON, Canada M5G 1X8.
SO
     BIOCHEMICAL JOURNAL, (2003 Feb 15) 370 (Pt 1) 275-82.
     Journal code: 2984726R. ISSN: 0264-6021.
     England: United Kingdom
CY
DT
     Journal; Article; (JOURNAL ARTICLE)
LΑ
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FS
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    ANSWER 2 OF 83 HCAPLUS COPYRIGHT 2003 ACS
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AN
     2002:293852 HCAPLUS
DN
     136:321288
ΤI
     Sequence of feedback-resistant pyruvate carboxylase from Corynebacterium
     glutamicum and their uses
IN
     Hanke, Paul D.
PA
     Archer-Daniels-Midland Company, USA
SO
     PCT Int. Appl., 42 pp.
     CODEN: PIXXD2
DT
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LA
     English
FAN.CNT 1
     PATENT NO.
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                                           APPLICATION NO. DATE
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     WO 2002031158
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     AU 2002013146
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    US 2002177202
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PRAI US 2000-239913P
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    WO 2001-US31893
                       W
                            20011012
     ANSWER 3 OF 83 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L6
AN
      2002-16323 BIOTECHDS
TI
     Novel mutated, feedback resistant pyruvate
      carboxylase enzyme polypeptide, useful for producing amino acids
      e.g. L-lysine, L-threonine, L-glycine, L-glutamic acid, L-proline and
     L-methionine and L-isoleucine;
         plasmid-mediated recombinant enzyme gene transfer and expression in
```

```
Corynebacterium sp.
AU
      HANKE P D
      ARCHER-DANIELS MIDLAND CO
PA
PΙ
      WO 2002031158 18 Apr 2002
ΑI
      WO 2000-US31893 13 Oct 2000
      US 2000-239913 13 Oct 2000
PRAI
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      Patent
      English
LA
      WPI: 2002-463267 [49]
os
     ANSWER 4 OF 83 HCAPLUS COPYRIGHT 2003 ACS
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     2002:791974 HCAPLUS
AN
DN
     137:309601
     Mutations in the mgo gene of a amino acid-producing Corynebacterium
ΤI
     glutamicum affecting yields
     Farwick, Mike; Bathe, Brigitte; Hermann, Thomas; Marx, Achim; Pfefferle,
IN
     Walter
PA
     Degussa AG, Germany
so
     Ger. Offen., 12 pp.
     CODEN: GWXXBX
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     ANSWER 5 OF 83 HCAPLUS COPYRIGHT 2003 ACS
AN
     2002:349112 HCAPLUS
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     136:354249
TI
     Fermentative production of L-amino acids with poxB mutants of
     Enterobacteriaceae
IN
     Thierbach, Georg; Rieping, Mechthild
PA
     Degussa A.-G., Germany
SO
     Ger. Offen., 22 pp.
     CODEN: GWXXBX
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US 2001-987541
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2002:295166 SCISEARCH
The Genuine Article (R) Number: 535WJ
Effect of aniA (carbon flux regulator) and phaC (poly-beta-hydroxybutyrate
synthase) mutations on pyruvate metabolism in Rhizobium etli
Dunn M F (Reprint); Araiza G; Encarnacion S; del Vargas M; Mora J
Univ Nacl Autonoma Mexico, Ctr Invest Fijac Nitrogeno, Programa Ingn
Metab, Apartado Postal 565-A, Cuernavaca, Morelos, Mexico (Reprint); Univ
Nacl Autonoma Mexico, Ctr Invest Fijac Nitrogeno, Programa Ingn Metab,
Cuernavaca, Morelos, Mexico
Mexico
JOURNAL OF BACTERIOLOGY, (APR 2002) Vol. 184, No. 8, pp. 2296-2299.
Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW, WASHINGTON, DC 20036-2904
ISSN: 0021-9193.
Article; Journal
English
Reference Count: 26
*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
ANSWER 7 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
2002:594429 BIOSIS
PREV200200594429
Differential expression of pyruvate carboxylase 5'UTR
variants during transition to lactation.
Agca, C. (1); Donkin, S. S. (1)
(1) Purdue University, West Lafayette, IN USA
Journal of Dairy Science, (2002) Vol. 85, No. Supplement 1, pp. 302.
http://www.ADSA.org/jds.print.
Meeting Info.: Meeting of the American Society of Animal Science and the
American Dairy Science Association Quebec City, Quebec, Canada July 20-25,
2002 American Society of Animal Science
. ISSN: 0022-0302.
Conference
English
ANSWER 8 OF 83 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
2002:608213 BIOSIS
PREV200200608213
Characterization of a pyruvate carboxylase
mutant of Azotobacter vinelandii: Effect on the accumulation of
the reserve polymer polyhydroxybutyrate (PHB.
Segura, D. (1); Cruz, T. (1); Espin, G. (1)
(1) Instituto de Biotecnologia, Universidad Nacional Autonoma de Mexico,
Cuernavaca, MOR Mexico
Abstracts of the General Meeting of the American Society for Microbiology,
(2002) Vol. 102, pp. 281. http://www.asmusa.org/mtgsrc/generalmeeting.htm.
Meeting Info.: 102nd General Meeting of the American Society for
Microbiology Salt Lake City, UT, USA May 19-23, 2002 American Society for
Microbiology
. ISSN: 1060-2011.
Conference
English
                                                   DUPLICATE 4
ANSWER 9 OF 83
                   MEDLINE
2002144336
               MEDLINE
          PubMed ID: 11876415
A novel methodology employing Corynebacterium glutamicum genome
information to generate a new L-lysine-producing mutant.
```

Ohnishi J; Mitsuhashi S; Hayashi M; Ando S; Yokoi H; Ochiai K; Ikeda M

Tokyo Research Laboratories, Kyowa Hakko Kogyo Co, Ltd, Machida, Japan.

APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (2002 Feb) 58 (2) 217-23.

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     ANSWER 10 OF 83
                                                         DUPLICATE 5
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               PubMed ID: 12112657
     Intron retention and frameshift mutations result in severe
TI
    pyruvate carboxylase deficiency in two male siblings.
ΑU
     Carbone Mary Anna; Applegarth Derek A; Robinson Brian H
     Research Institute, Hospital for Sick Children and the Department of
CS
     Biochemistry at the University of Toronto, Toronto, Ontario, Canada.
SO
    HUMAN MUTATION, (2002 Jul) 20 (1) 48-56.
     Journal code: 9215429. ISSN: 1098-1004.
CY
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LA
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Numeric values may contain 1-8 significant figures. If range notation
is used, both the beginning and the end of the range must be
specified, e.g., '250-300/MW'. Expressions such as '250-/MW' are not
allowed. To search for values above or below a given number, use the
>, =>, <, or <= operators, e.g., 'MW => 250'. Text terms cannot be
used in numeric expressions. If you specify a unit, it must be
dimensionally correct for that field code. To see the unit
designations for field codes in the current file, enter "DISPLAY UNIT
ALL" at an arrow prompt (=>).
=> s 16 and py<=2000
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            68 L6 AND PY<=2000
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L7
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                        MEDLINE
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TΙ
     Physiological characterisation of a pyruvate-carboxylase
     -negative Saccharomyces cerevisiae mutant in batch and chemostat
ΑU
     de Jong-Gubbels P; Bauer J; Niederberger P; Stuckrath I; Kotter P; van
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     Priority Journals
os
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     96128228 MEDLINE
     96128228
DN
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TI
     A mutation affecting carbon catabolite repression suppresses growth
     defects in pyruvate carboxylase mutants from
     Saccharomyces cerevisiae.
ΑU
     Blazquez M A; Gamo F J; Gancedo C
     Instituto de Investigaciones Biomedicas del C.S.I.C., Unidad de Bioquimica
CS
     y Genetica de Levaduras, Madrid, Spain.
     FEBS LETTERS, (1995 Dec 18) 377 (2) 197-200.
SO
     Journal code: 0155157. ISSN: 0014-5793.
CY
     Netherlands
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
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     92111527
               PubMed ID: 1765093
TI
     Site-directed mutagenesis of the conserved histidine residue of
     phosphoenolpyruvate carboxylase. His138 is essential for the second
     partial reaction.
ΑU
     Terada K; Izui K
CS
     Department of Chemistry, Faculty of Science, Kyoto University, Japan.
SO
     EUROPEAN JOURNAL OF BIOCHEMISTRY, (1991 Dec 18) 202 (3) 797-803.
     Journal code: 0107600. ISSN: 0014-2956.
CY
     GERMANY: Germany, Federal Republic of
DT
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LA
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                        MEDLINE
AN
     91367547
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ΤI
     Pyruvate carboxylase deficiency: a benign
     variant with normal development.
ΑU
     Van Coster R N; Fernhoff P M; De Vivo D C
CS
     Division of Pediatric Neurology, Columbia Presbyterian Medical Center, New
     York, New York 10032.
SO
     PEDIATRIC RESEARCH, (1991 Jul) 30 (1) 1-4.
     Journal code: 0100714. ISSN: 0031-3998.
CY
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LA
     English
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     Priority Journals
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     199110
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     91337144
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DN
     91337144
                PubMed ID: 1872883
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carboxylase activity.
ΑU
     Walker M E; Wallace J C
CS
     Department of Biochemistry, University of Adelaide, South Australia.
SO
     BIOCHEMISTRY INTERNATIONAL, (1991 Mar) 23 (4) 697-705.
     Journal code: 8100311. ISSN: 0158-5231.
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     Journal; Article; (JOURNAL ARTICLE)
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LΑ
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     Priority Journals
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EΜ
     199109
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                        MEDLINE
L7
                  MEDLINE
AN
     88051001
     88051001
                PubMed ID: 3315006
DN
     13C-NMR analysis of Aspergillus mutants disturbed in pyruvate metabolism.
TI
     Dijkema C; Visser J
ΑU
     Department of Molecular Physics, Agricultural University, Wageningen, The
CS
     Netherlands.
     BIOCHIMICA ET BIOPHYSICA ACTA, (1987 Dec 10) 931 (3) 311-9.
SO
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FS
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EΜ
     198801
     Entered STN: 19900305
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     Entered Medline: 19880115
L7
     ANSWER 10 OF 68
                         MEDLINE
AN
     88022791
                  MEDLINE
DN
     88022791
                PubMed ID: 3116940
ΤI
     Pyruvate carboxylase in the yeast pyc mutant
ΑU
     Lim F; Rohde M; Morris C P; Wallace J C
     Department of Biochemistry, University of Adelaide, Australia.
CS
SO
     ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1987 Oct) 258 (1)
     259-64.
     Journal code: 0372430. ISSN: 0003-9861.
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     United States
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     English
     Priority Journals
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     Entered STN: 19900305
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     Entered Medline: 19871112
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L7
     ANSWER 11 OF 68
                         MEDLINE
AN
     87062482
                  MEDLINE
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     87062482
                PubMed ID: 3939532
     Pyruvate carboxylase deficiencies: complementation studies between
TI
     "French" and "American" phenotypes in cultured fibroblasts.
     Augereau C; Pham Dinh D; Moncion A; Marsac C; Saudubray J M; Robinson B H
ΑU
SO
     JOURNAL OF INHERITED METABOLIC DISEASE, (1985) 8 (2) 59-62.
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     ENGLAND: United Kingdom
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     Journal; Article; (JOURNAL ARTICLE)
LΑ
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EΜ
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     Entered STN: 19900302
     Last Updated on STN: 20000303
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Entered Medline: 19870109 L7 ANSWER 12 OF 68 MEDLINE AN 87035556 MEDLINE PubMed ID: 3534135 DN 87035556 Characterization of Aspergillus nidulans mutants in carbon metabolism TI isolated after D-galacturonate enrichment. ΑU Uitzetter J H; Bos C J; Visser J JOURNAL OF GENERAL MICROBIOLOGY, (1986 May) 132 (Pt 5) 1167-72. SO Journal code: 0375371. ISSN: 0022-1287. CY ENGLAND: United Kingdom DT Journal; Article; (JOURNAL ARTICLE) LА English FS Priority Journals EM 198612 ED Entered STN: 19900302 Last Updated on STN: 19980206 Entered Medline: 19861205 L7 ANSWER 13 OF 68 MEDLINE AN 85120902 MEDLINE 85120902 DN PubMed ID: 3882052 ТT Pyruvate carboxylase deficiency in yeast: a mutant affecting the interaction between the glyoxylate and Krebs cycles. Wills C; Melham T ΑIJ NC GM 32025 (NIGMS) ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1985 Feb 1) 236 (2) SO 782-91. Journal code: 0372430. ISSN: 0003-9861. CY United States ĎΤ Journal; Article; (JOURNAL ARTICLE) LA English FS Priority Journals EΜ 198503 ED Entered STN: 19900320 Last Updated on STN: 19970203 Entered Medline: 19850321 Ь7 ANSWER 14 OF 68 MEDLINE AN 84175963 MEDLINE PubMed ID: 6424438 DN 84175963 The molecular basis for the two different clinical presentations of ΤI classical pyruvate carboxylase deficiency. ΑU Robinson B H; Oei J; Sherwood W G; Applegarth D; Wong L; Haworth J; Goodyer P; Casey R; Zaleski L A AMERICAN JOURNAL OF HUMAN GENETICS, (1984 Mar) 36 (2) 283-94. SO Journal code: 0370475. ISSN: 0002-9297. United States CY DT Journal; Article; (JOURNAL ARTICLE) LA English FS Priority Journals EM 198405 ED Entered STN: 19900319 Last Updated on STN: 20000303 Entered Medline: 19840502 L7 ANSWER 15 OF 68 MEDLINE AN 83285866 MEDLINE DN 83285866 PubMed ID: 6883708 TI A mutation of pyruvate carboxylase in fibroblasts from a patient with severe, chronic lactic acidaemia. ΑU Hansen T L; Christensen E; Willems J L; Trijbels J M SO CLINICA CHIMICA ACTA, (1983 Jun 30) 131 (1-2) 39-44.

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Journal; Article; (JOURNAL ARTICLE)

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Priority Journals

English

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                  MEDLINE
AN
     80008066
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     80008066
                PubMed ID: 479837
     The control of the synthesis of isocitrate lyase in a thermophilic
ΤI
     bacillus.
ΑU
     Griffiths M W
     JOURNAL OF GENERAL MICROBIOLOGY, (1979 Jun) 112 (2) 357-64.
SO
     Journal code: 0375371. ISSN: 0022-1287.
CY
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DT
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LA
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FS
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     197911
F.M
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     ANSWER 17 OF 68
L7
                         MEDLINE
AN
     78152784
                  MEDITNE
DN
     78152784
                PubMed ID: 417147
     A heat-sensitive lysis mutant of Bacillus subtilis 168 with a low activity
TΙ
     of pyruvate carboxylase.
ΔII
     Buxton R S
so
     JOURNAL OF GENERAL MICROBIOLOGY, (1978 Apr) 105 (2) 175-85.
     Journal code: 0375371. ISSN: 0022-1287.
CY
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LA
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     ANSWER 18 OF 68
L7
                         MEDLINE
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     76134909
                  MEDLINE
DN
     76134909
               PubMed ID: 175748
ΤI
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     Saccharomyces cerevisiae growing under glucose limitation.
ΑU
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SO
     Journal code: 0410427. ISSN: 0302-8933.
CY
     GERMANY, WEST: Germany, Federal Republic of
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
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     Priority Journals
FS
EΜ
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T.7
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AN
     74168570
                  MEDLINE
DN
     74168570
                PubMed ID: 4208415
     Pyruvate carboxylase deficiency in pleiotropic
TI
     carbohydrate-negative mutant strains of Pseudomonas aeruginosa.
ΑU
     Phibbs P V Jr; Feary T W; Blevins W T
     JOURNAL OF BACTERIOLOGY, (1974 Jun) 118 (3) 999-1009.
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CY
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     Journal; Article; (JOURNAL ARTICLE)
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     197407
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ED Entered STN: 19900310 Last Updated on STN: 19970203

Entered Medline: 19740719

- L7 ANSWER 20 OF 68 SCISEARCH COPYRIGHT 2003 ISI (R)
- AN 2000:502705 SCISEARCH
- GA The Genuine Article (R) Number: 328ML
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- Rodriguez C; Flores C L (Reprint) AU .
- UNIV AUTONOMA MADRID, CSIC, INST INVEST BIOMED ALBERTO SOLS, UNIDAD CS BIOQUIM & GENET LEVADURAS, E-28029 MADRID, SPAIN (Reprint); UNIV AUTONOMA MADRID, CSIC, INST INVEST BIOMED ALBERTO SOLS, UNIDAD BIOQUIM & GENET LEVADURÀS, E-28029 MADRID, SPAIN; UNIV LA HABANA, FAC BIOL, DEPT BIOQUIM, HAVANA, CUBA
- SPAIN; CUBA CYA
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 - ISSN: 0141-0229.
- DT Article; Journal
- FS LIFE; AGRI
- LA English
- REC Reference Count: 44
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- AN96:598989 SCISEARCH
- GA The Genuine Article (R) Number: VB017
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- UNIV BORDEAUX 2, UNITE RESONANCE MAGNET SYST BIOL, UMR 5536 CNRS, 146 RUE CS LEO SAIGNAT, F-33076 BORDEAUX, FRANCE (Reprint); UNIV BORDEAUX 2, UNITE RESONANCE MAGNET SYST BIOL, UMR 5536 CNRS, F-33076 BORDEAUX, FRANCE
- CYA FRANCE
- SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (01 AUG 1996) Vol. 239, No. 3, pp. 742-751. ISSN: 0014-2956.
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- FS LIFE
- ENGLISH LA
- REC Reference Count: 21 *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
- L7 ANSWER 22 OF 68 SCISEARCH COPYRIGHT 2003 ISI (R)
- AN 94:177461 SCISEARCH
- GA The Genuine Article (R) Number: MZ715
- ΤТ EFFECTS OF PHOSPHOENOL PYRUVATE-CARBOXYLASE DEFICIENCY ON METABOLISM AND LYSINE PRODUCTION IN CORYNEBACTERIUM-GLUTAMICUM
- AII GUBLER M (Reprint); PARK S M; JETTEN M; STEPHANOPOULOS G; SINSKEY A J
- HOFFMANN LA ROCHE AG, CH-4002 BASEL, SWITZERLAND (Reprint); MIT, DEPT CS BIOL, CAMBRIDGE, MA, 02139; MIT, DEPT CHEM ENGN, CAMBRIDGE, MA, 02139
- CYA SWITZERLAND; USA
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 - ISSN: 0175-7598.
- DT Article; Journal
- FS LIFE; AGRI **ENGLISH**

LA

- REC Reference Count: 33
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- L7 ANSWER 23 OF 68 SCISEARCH COPYRIGHT 2003 ISI (R)

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91:369598 SCISEARCH
ΑN
GΑ
     The Genuine Article (R) Number: FT788
ТŤ
     PYRUVATE-CARBOXYLASE DEFICIENCY - A BENIGN
     VARIANT WITH NORMAL DEVELOPMENT
     VANCOSTER R N; FERNHOFF P M; DEVIVO D C (Reprint)
AU
     COLUMBIA PRESBYTERIAN MED CTR, DIV PEDIAT NEUROL, NEW YORK, NY, 10032;
CŚ
     EMORY UNIV, SCH MED, DEPT PEDIAT, DIV MED GENET, ATLANTA, GA, 30322
CYA
     PEDIATRIC RESEARCH, (1991) Vol. 30, No. 1, pp. 1-4.
SO
DT
     Article; Journal
FS
     LIFE
LA
     ENGLISH
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     Reference Count: 36
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
T.7
     ANSWER 24 OF 68 SCISEARCH COPYRIGHT 2003 ISI (R)
ΔN
     87:573195 SCISEARCH
     The Genuine Article (R) Number: K3038
GΑ
TI
     PYRUVATE-CARBOXYLASE IN THE YEAST PYC MUTANT
AU
     LIM F; ROHDE M; MORRIS C P; WALLACE J C (Reprint)
     UNIV ADELAIDE, DEPT BIOCHEM, ADELAIDE, SA 5001, AUSTRALIA
CS
CYA
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     ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1987) Vol. 258, No. 1,
SO
     pp. 259-264.
     Article; Journal
DT
FS
     LIFE
     ENGLISH
LA
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     Reference Count: 16
     ANSWER 25 OF 68 SCISEARCH COPYRIGHT 2003 ISI (R)
T.7
AN
     85:108797 SCISEARCH
GA
     The Genuine Article (R) Number: ABZ03
     PYRUVATE-CARBOXYLASE DEFICIENCY IN YEAST - A
TΙ
     MUTANT AFFECTING THE INTERACTION BETWEEN THE GLYOXYLATE AND KREBS
     CYCLES
ΑU
     WILLS C (Reprint); MELHAM T
     UNIV CALIF SAN DIEGO, DEPT BIOL, LA JOLLA, CA, 92093 (Reprint)
CS
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SO
     ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (1985) Vol. 236, No. 2,
     pp. 782-791.
DT
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     Reference Count: 27
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                                  COPYRIGHT 2003 CSA
AN
     95:22015 LIFESCI
ΤI
     Pyruvate carboxylase deficiency: A benign
     variant with normal development
     Coster, R.N.V.; Fernhoff, P.M.; De Vivo, D.C.*
ΑU
CS
     Neurol. Inst., 710 W. 168 St., New York, NY 10032, USA
SO
     PEDIATR. RES., (1991) vol. 30, no. 1, pp. 1-4.
DT
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     G
LA
     English
_{\mathrm{SL}}
     English
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L7
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AN
     81:22368 LIFESCI
     Interaction Between Aminosidine and Doxorubicin on E. coli Wild Strain
ΤI
     and Respiratory Deficient Mutant.
ΑU
     Morvillo, E.; Sanfilippo, A.; Schioppacassi, G.
     Farmitalia Carlo Erba, Res. Lab., Via Giovanni XXIII, 20014 Nerviano (Mi),
CS
     Italy
SO
     MICROBIOLOGICA (BOLOGNA)., (1981) vol. 4, no. 4, pp. 421-430.
DT
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FS
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SL
     English
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ANSWER 28 OF 68 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L7,
AN
      1997-04725 BIOTECHDS
      DNA encoding mutant pyruvate-carboxylase;
TТ
         Zymomonas mobilis recombinant enzyme preparation by vector expression
         in host cell
      Bruhn H; Pohl M; Mesch K; Kula M R
ΑU
      Forsch.Zent.Juelich
PA
      Juelich, Germany.
LO
      WO 9637620 28 Nov 1996
PΙ
      WO 1996-DE928 22 May 1996
ΑI
      DE 1995-1023269 29 Jun 1995; DE 1995-101880P 26 May 1995
PRAI
DТ
      Patent
      English
LA
      WPI: 1997-033996 [03]
os
      ANSWER 29 OF 68 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
L7
      1986-06526 BIOTECHDS
ΑN
      Properties of Candida lipolytica mutants with the modified glycoxylate
TΤ
      cycle and their ability to produce citric and isocitric acid: I.
      Physiological, biochemical and cytological characteristics of mtuants
      grown on glucose or hexadecane;
         comparison with wild-type strain; n-alkane utilization by mutant
      Ermakova I T; Shishkanova N V; Melnikova O F; *Finogenova T V
ΑU
      Institute of Biochemistry and Physiology of Microorganisms, USSR Academy
LO
      of Sciences, Pushchino, Moscow region, 142292, USSR.
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      Appl.Microbiol.Biotechnol.; (1986) 23, 5, 372-77
      CODEN: EJABDD
DT
      Journal
LA
      English
Ь7
      ANSWER 30 OF 68 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
ΑN
      1984-01310 BIOTECHDS
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TI
      nidulans:
         analysis of glycolytic mutants and C-metabolism in vivo (conference
         abstract)
ΑU
      Bos C J; Dijkena C; Kester H C W; Kobus G; Visser J
      Department of Genetics, Agricultural University, Gen. Foulkesweg 53, 6703
LO
      EM Wageningen, The Netherlands.
SO
      Symp.Biotechnol.Res.Neth; (1983) 172
DT
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LA
      English
=> s 17 and (resistant or desensiti?)
             4 L7 AND (RESISTANT OR DESENSITI?)
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TI
     EFFECTS OF PHOSPHOENOL PYRUVATE-CARBOXYLASE DEFICIENCY ON METABOLISM AND
     LYSINE PRODUCTION IN CORYNEBACTERIUM-GLUTAMICUM
ΑU
     GUBLER M (Reprint); PARK S M; JETTEN M; STEPHANOPOULOS G; SINSKEY A J
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     HOFFMANN LA ROCHE AG, CH-4002 BASEL, SWITZERLAND (Reprint); MIT, DEPT
     BIOL, CAMBRIDGE, MA, 02139; MIT, DEPT CHEM ENGN, CAMBRIDGE, MA, 02139
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     SWITZERLAND; USA
     APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (FEB 1994) Vol. 40, No.
SO
     6, pp. 857-863.
     ISSN: 0175-7598.
DT
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     LIFE; AGRI
     ENGLISH
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REC
     Reference Count: 33
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
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L8
     ANSWER 2 OF 4 LIFESCI
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AN 81:22368 LIFESCI TĮ, Interaction Between Aminosidine and Doxorubicin on E. coli Wird Strain and Respiratory Deficient Mutant. Morvillo, E.; Sanfilippo, A.; Schioppacassi, G. AU Farmitalia Carlo Erba, Res. Lab., Via Giovanni XXIII, 20014 Nerviano (Mi), CS. MICROBIOLOGICA (BOLOGNA)., (1981) vol. 4, no. 4, pp. 421-430. SO DT Journal FS J; A; G LΑ English SLEnglish ANSWER 3 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L8 AN 1983:260535 BIOSIS DN BA76:18027 ΤI PROPERTIES OF A BACILLUS-SUBTILIS MUTANT ABLE TO SPORULATE CONTINUALLY DURING GROWTH IN SYNTHETIC MEDIUM. ΑU ENDO T; ISHIHARA H-O; FREESE E LAB. MOLECULAR BIOL., NATIONAL INSTITUTE NEUROL. COMMUNICATIVE DISORDERS CS STROKES, NIH, BUILDING 36, ROOM 3D02, BETHESDA, MARYLAND 20205. J GEN MICROBIOL, (1983) 129 (1), 17-30. SO CODEN: JGMIAN. ISSN: 0022-1287. BA; OLD FS English LΑ ANSWER 4 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. L8 1977:230504 BIOSIS AN DN BA64:52868 STUDIES ON THE ALLO STERIC PROPERTIES OF MUTATIONALLY ALTERED ΤI

PHOSPHOENOL PYRUVATE CARBOXYLASES EC-4.1.1.31 OF

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ESCHERICHIA-COLI DISCRIMINATION OF ALLO STERIC SITES.

MORIKAWA M; IZUI K; KATSUKI H ΑU

SO J BIOCHEM (TOKYO), (1977) 81 (5), 1473-1486.

CODEN: JOBIAO. ISSN: 0021-924X.

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The phosphoenol pyruvate carboxylase gene (ppc) of lysine-producing AΒ Corynebacterium glutamicum and C. lactofermentum strains was inactivated by marker exchange mutagenesis. The mutants lacked completely phosphoenol pyruvate carboxylase (PEP carboxylase) activity, but grew in minimal medium containing glucose as the sole carbon source. In addition, the ppc(-) strains produced equivalent titers of lysine in shake flasks and in 10-1 fermentation experiments as their parent strains. To address the question of how ppc(-) Corynebacterium strains generate oxaloacetate (OAA) for their own metabolism as well as for high-level lysine production, we measured the activities of enzymes leading to OAA synthesis. Whereas pyruvate carboxylase activity was not detected in any of the strains, phosphoenol pyruvate carboxykinase (PEP carboxykinase) activity was found to be significantly higher in C. glutamicum ppc mutants compared to the parent strains. On the other hand, PEP carboxykinase activity in C.

lactofermentum was essentially absent. As glyoxylate cycle enzymes are strongly repressed by glucose, they are not likely to compensate for the lack of PEP carboxylase activity. PEP carboxykinase, among several candidates, could play this role.

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 13:05:34 ON 16 APR 2003 8868 S PYRUVATE CARBOXYLASE

L3	296 S L1 (10A) (MUTA? OR SUBSTITUT? OR VARIANT OR REPLACE?)	
L4	117 DUP REM L3 (179 DUPLICATES REMOVED)	
L5	210 S L1 (5A) (MUTA? OR VARIANT)	
L6.	83 DUP REM L5 (127 DUPLICATES REMOVED)	
L7	68 S L6 AND PY<=2000	
L8	4 S L7 AND (RESISTANT OR DESENSITI?)	
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269 S L1 (10A) (MUTA? SUBSTITUT? OR REPLACE?)

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